

$$R_{\text{avg}} = \frac{\sum_{i=1}^n \sum_{j=1}^m R_{ij}}{n \times m}$$

**Fig. 4**

— Prior Art —

$$\begin{bmatrix} X \\ Y \\ Z \end{bmatrix} = \begin{bmatrix} X_{r, \max} & X_{g, \max} & X_{b, \max} \\ Y_{r, \max} & Y_{g, \max} & Y_{b, \max} \\ Z_{r, \max} & Z_{g, \max} & Z_{b, \max} \end{bmatrix} \begin{bmatrix} R \\ G \\ B \end{bmatrix}$$

**M** →

**Fig. 5**

$$\begin{bmatrix} X \\ Y \\ Z \end{bmatrix} = M_1 * \begin{bmatrix} R \\ G \\ B \end{bmatrix}$$

Video Display D

*Fig. 6*

$$\begin{bmatrix} X \\ Y \\ Z \end{bmatrix} = M_2 * \begin{bmatrix} R' \\ G' \\ B' \end{bmatrix}$$

Ambient Light Sources 88

*Fig. 7*

$$\begin{bmatrix} R' \\ G' \\ B' \end{bmatrix} = M_2^{-1} * M_1 * \begin{bmatrix} R \\ G \\ B \end{bmatrix}$$

*Fig. 8*

— Prior Art —

$$M = \begin{bmatrix} s_r x_r & s_g x_g & s_b x_b \\ s_r y_r & s_g y_g & s_b y_b \\ s_r z_r & s_g z_g & s_b z_b \end{bmatrix}$$

*Fig. 9*

$$\begin{bmatrix} s_r \\ s_g \\ s_b \end{bmatrix} = \begin{bmatrix} x_w \\ y_w \\ z_w \end{bmatrix} \begin{bmatrix} x_r & x_g & x_b \\ y_r & y_g & y_b \\ z_r & z_g & z_b \end{bmatrix}^{-1}$$

— Prior Art —

*Fig. 10*

$$\begin{bmatrix} s_r \\ s_g \\ s_b \end{bmatrix} \begin{bmatrix} x_r & x_g & x_b \\ y_r & y_g & y_b \\ z_r & z_g & z_b \end{bmatrix} = \begin{bmatrix} x_w \\ y_w \\ z_w \end{bmatrix}$$

— Prior Art —

*Fig. 11*

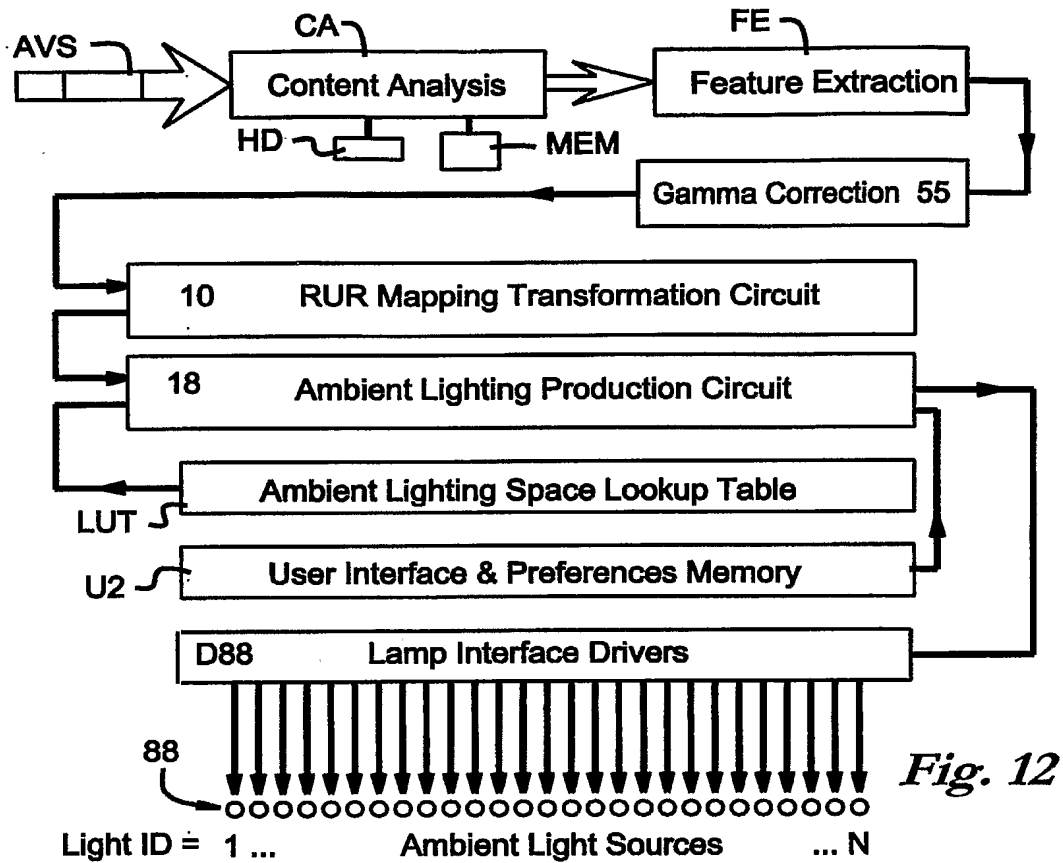


Fig. 12

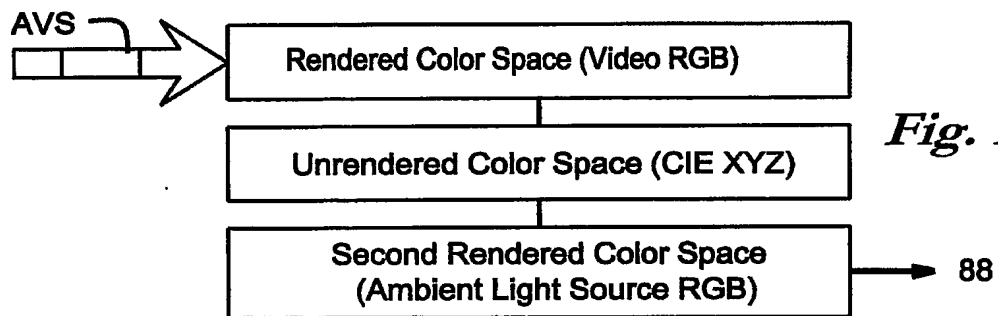
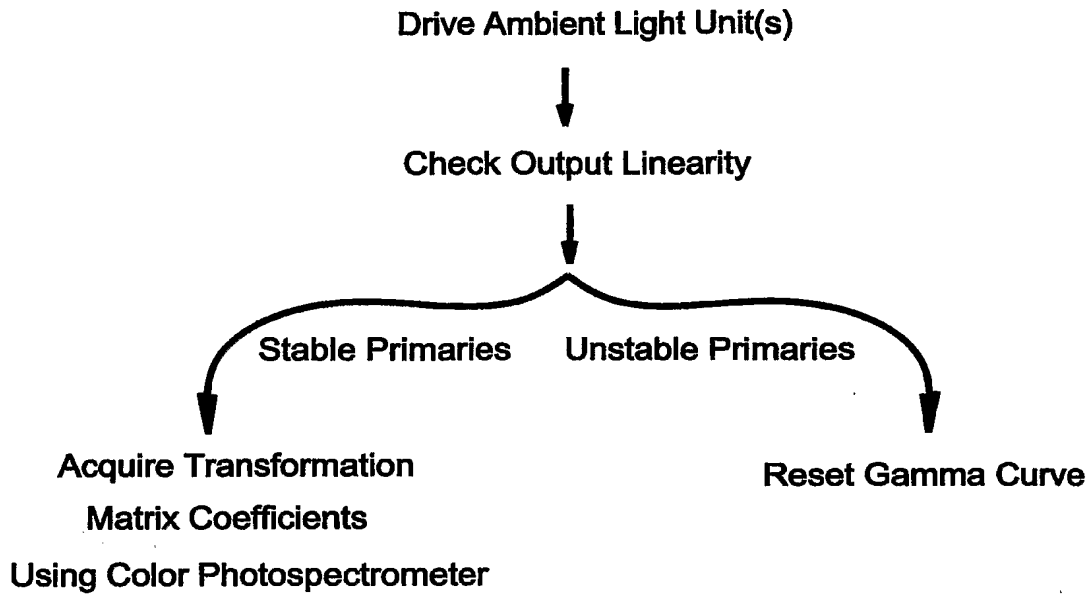
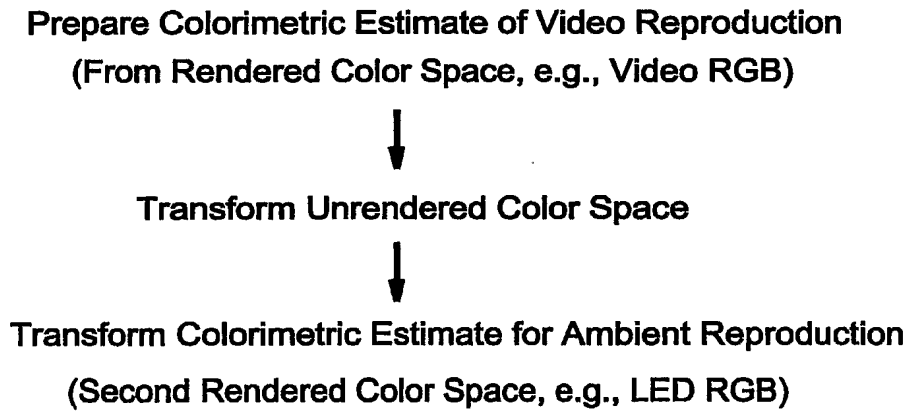
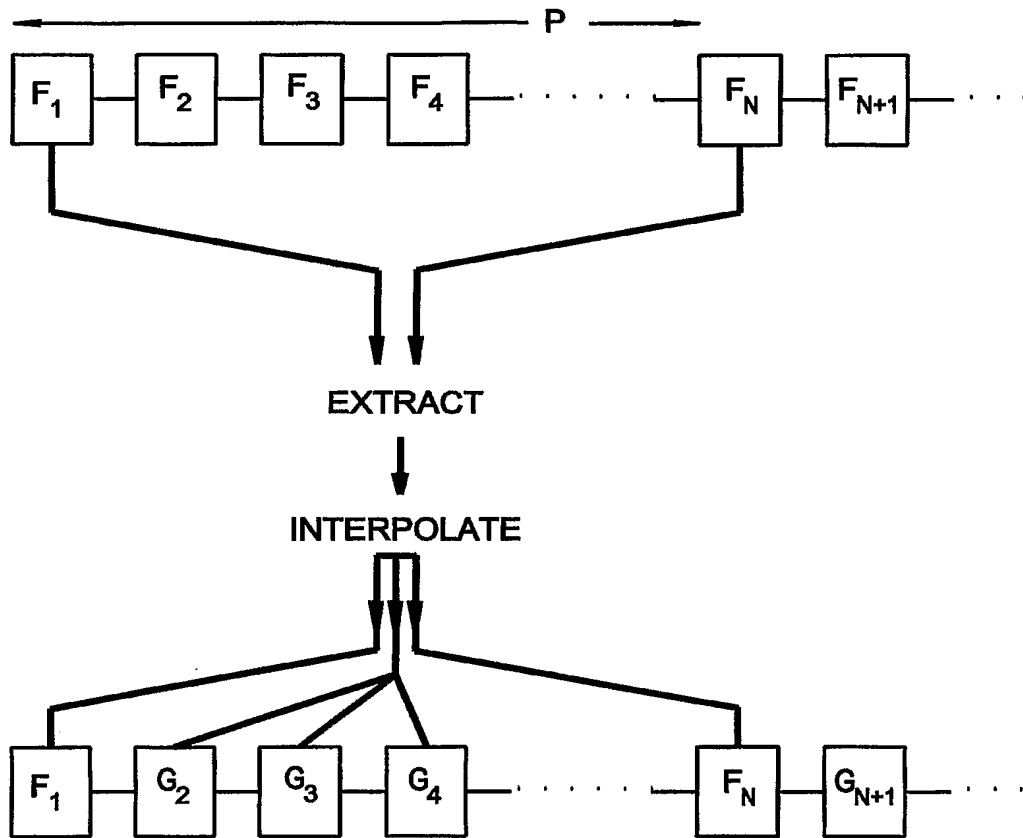
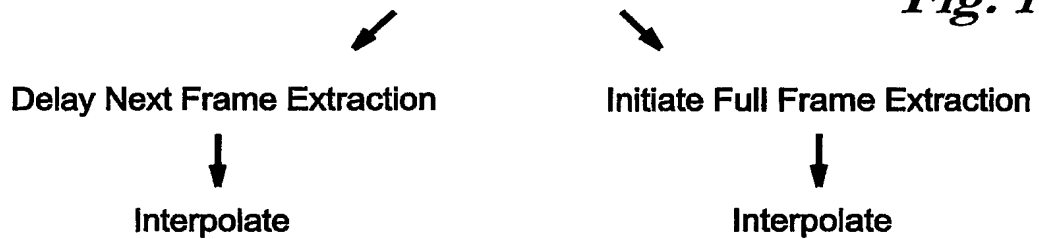
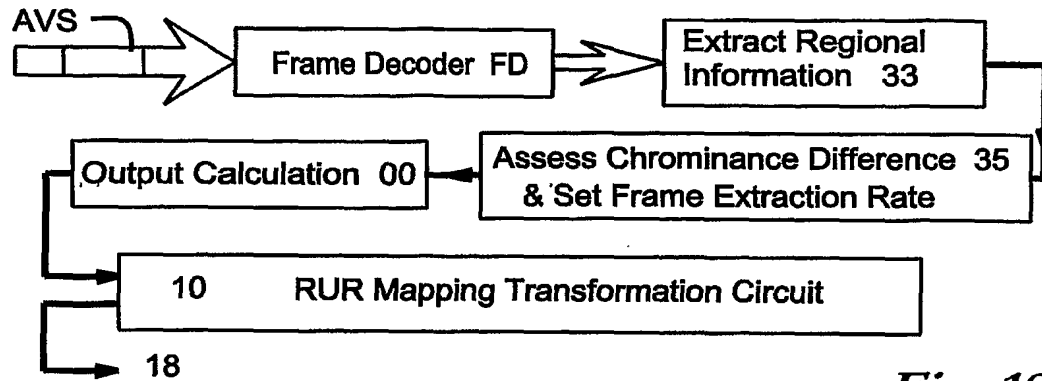
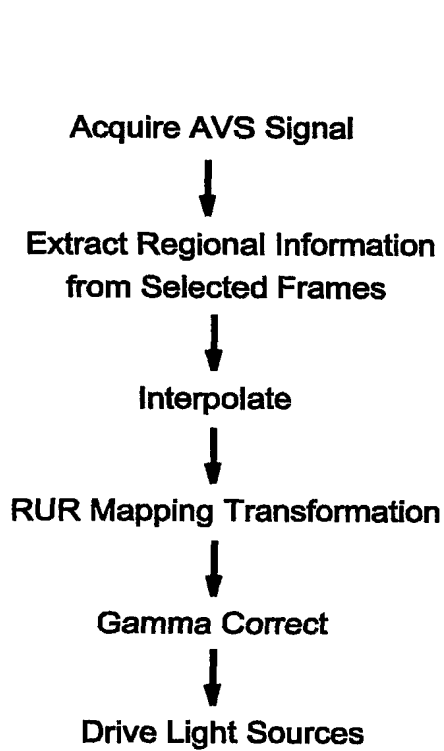
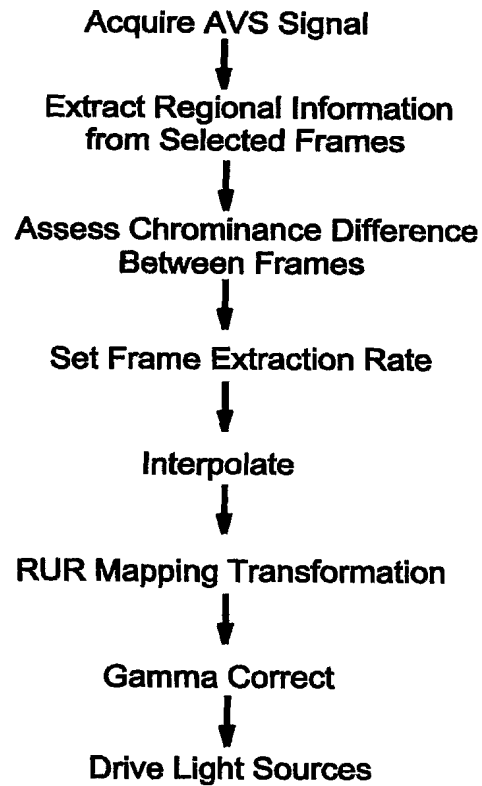


Fig. 13

*Fig. 14**Fig. 15*

*Fig. 16***Abbreviated Chrominance Assessment***Fig. 17*

*Fig. 18**Fig. 19**Fig. 20*